Wireless Sensor Networks: Principles and Practice

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Written by award-winning engineers whose research has been sponsored by the U.S. National Science Foundation (NSF), IBM, and Cisco's University Research Program, *Wireless Sensor Networks: Principles and Practic*e addresses everything product developers and technicians need to know to navigate the field. It provides an all-inclusive examination of the major wireless sensor network (WSN) technology, standards, and application topics.

Using straightforward language, the text makes complex concepts and processes easy to understand. It covers hardware design, medium access control, routing schemes, transport protocols, OS support, middleware, data management, localization, synchronization, security, actuator/underwater/video sensor networking, power control, sensor simulations, and emerging research. This authoritative resource includes a wealth of exercises, end-of-chapter reviews, detailed case studies, as well as practical sensor network design cases that touch on medical applications.

Complete with class labs that illustrate how to apply concepts to the development and application of WSNs, this book spells out the steps of design and implementation needed to address real-world challenges and optimization problems.

A CD with instructional resources, including solutions to exercises and lab materials, is available upon qualified course adoption.

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